

Title (en)

Arrangement for a modular ink jet print head

Title (de)

Anordnung für einen Tintendruckkopf aus einzelnen Tintendruckmodulen

Title (fr)

Agencement pour une tête d'impression à jet d'encre modulaire

Publication

EP 0713775 A3 19970709 (DE)

Application

EP 95250260 A 19951027

Priority

DE 4443244 A 19941125

Abstract (en)

[origin: EP0713775A2] The printing head uses a stack of individual ink jet printing modules (1,4) employing an edge shooter principle, with piezoelectric actuators (11,41) having control electrodes coupled to lead lines (22,32) of a band conductor (2,3). The carrier layer (21,31) of the band conductor enclosing the lead lines is reinforced in the area between the ink jet printing modules and shaped to provide the required spacing between the piezoactuators and the jet rows of the successive modules and for accurate positioning of the latter.

IPC 1-7

B41J 2/14

IPC 8 full level

B41J 2/14 (2006.01); **B41J 2/145** (2006.01); **B41J 2/155** (2006.01)

CPC (source: EP US)

B41J 2/14233 (2013.01 - EP US); **B41J 2002/14379** (2013.01 - EP US); **B41J 2002/14491** (2013.01 - EP US)

Citation (search report)

- [XY] WO 8100151 A1 19810122 - BURROUGHS CORP [US], et al
- [Y] FR 2574021 A1 19860606 - CANON KK [JP]
- [A] US 4605939 A 19860812 - HUBBARD DAVID W [US], et al
- [A] US 4392145 A 19830705 - PARKOLA WALTER R
- [A] US 4752789 A 19880621 - MALTSEV VIACHESLAV B [US]
- [A] EP 0486256 A2 19920520 - CITIZEN WATCH CO LTD [JP]
- [DA] US 4703333 A 19871027 - HUBBARD DAVID W [US]

Cited by

US9738073B2; WO2016169167A1

Designated contracting state (EPC)

CH DE FR GB IT LI

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EP 0713775 A2 19960529; EP 0713775 A3 19970709; EP 0713775 B1 19991006; DE 4443244 A1 19960530; DE 4443244 C2 20000406; DE 59506985 D1 19991111; US 5870118 A 19990209

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